

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 8/28/2002

Control	0918-45-347
Project	CM 97(108)
Highway	CS
County	DALLAS

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum by entering the date, which appears at the top of this letter on the Addendum Acknowledgement Form, contained in your bid proposal.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: CM 97(108)

CONTROL: 0918-45-347

COUNTY: DALLAS

LETTING: 09/06/2002

REFERENCE NO: 0828

PROPOSAL ADDENDUMS

PROPOSAL COVER

X BID INSERTS (SH. NO.: 1-7)

X GENERAL NOTES (SH. NO.: I, J, K; L)

X SPEC LIST (SH. NO.: 1, 2-3)

X SPECIAL PROVISIONS:

ADDED: 000--1644, 192---012

DELETED: 000--1623, 164---002

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: PLAN SHEETS: INDEX OF SHEETS, 3D,3E, 3K, 3L, 6 THRU 9, 20, 21,
34 THRU 50; 108 THRU 111.

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

BID INSERTS: DELETED ITEMS 164-5001, 164-5002, 168-5002, 649-5002;
5421-5009.

ADDED ITEMS: 192-5014, 305-5020, 432-5001, 618-5032, 618-5034, 618-5035,
620-5003, 620-5009, 656-5004, 656-5011, 662-5042, 662-5045, 662-5081,
662-5082, 684-5020; 684-5044.

BID INSERT INFORMATION SHIFTED DUE TO ABOVE CHANGES.

GENERAL NOTES: ADDED NOTES UNDER ITEM 400, SHEET I; ITEM 502, SHEET L.

PLAN SHEETS: DELETED PLAN SHEETS 39 THRU 42; 108 THRU 111.

REPLACED SHEETS: 3D & 3E (GENERAL NOTES), 6 THRU 9, 20, 21, 34 THRU 38;
43 THRU 50.

REVISED SHEETS: INDEX OF SHEETS; 3K & 3L (E&Q) - DUE TO THE NUMEROUS
CHANGES IN BID ITEMS E&Q PLAN SHEETS ARE TOTALLY REVISED.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	5002		PREP ROW DOLLARS CENTS and	KM	.482	1
	104	5001		REMOV CONC (PAV) DOLLARS CENTS and	M2	379.970	2
	104	5005		REMOV CONC (MED) DOLLARS CENTS and	M2	72.000	3
	104	5009		REMOV CONC (SDWLK) DOLLARS CENTS and	M2	121.800	4
	104	5011		REMOV CONC (DRVWY) DOLLARS CENTS and	M2	134.000	5
	104	5037		REMOV CONC (INLET) DOLLARS CENTS and	EA	3.000	6
	110	5001		EXCAVATION (RDWY) DOLLARS CENTS and	M3	156.040	7
	160	5002		FURN AND PLAC TPSL (CL 2)(150 MM) DOLLARS CENTS and	M2	421.000	8
	162	5002		BLOCK SODDING DOLLARS CENTS and	M2	421.000	9
	168	5001		VEGETATIVE WATERING DOLLARS CENTS and	KL	164.200	10
	192	5014	012	TRANSPLANT EXIST TREE OR PALM DOLLARS CENTS and	EA	10.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	305	5020		SALV, HAUL & STPL RCL APH PV(25-125 MM) DOLLARS and CENTS	M2	2,206.100	12
	340	5012	004	ASPH CONC (TY D)(SURF) DOLLARS and CENTS	MGR	166.210	13
	340	5041	004	ASPH CONC (TY B)(BASE) DOLLARS and CENTS	MGR	259.460	14
	360	5015	028	MONO CURB (TY II) DOLLARS and CENTS	M	467.030	15
	360	5066	028	CONC PAV (CPCD)(200 MM)(MOD) DOLLARS and CENTS	M2	1,138.360	16
	432	5001		RIPRAP (CONC)(CL B) DOLLARS and CENTS	M3	14.000	17
	464	5003		RC PIPE (CL III) (450 MM) DOLLARS and CENTS	M	29.210	18
	464	5061		RC PIPE (SEWER)(CL III) (600 MM) DOLLARS and CENTS	M	9.080	19
	464	5063		RC PIPE (SEWER)(CL III) (750 MM) DOLLARS and CENTS	M	20.050	20
	465	5066		INLET (COMPL)(CURB)(3.0 M) DOLLARS and CENTS	EA	2.000	21
	465	5067		INLET (COMPL)(CURB)(6.0 M) DOLLARS and CENTS	EA	1.000	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	496	5004		REMOV OLD STR (PIPE) DOLLARS CENTS and	M	16.700	23
	500	5001		MOBILIZATION DOLLARS CENTS and	LS	1.000	24
	502	5001	020	BARRICADES, SIGNS AND TRAF HANDLE DOLLARS CENTS and	MO	6.000	25
	530	5073	004	DRVWYS (CONC)(REINF)(150 MM) DOLLARS CENTS and	M2	102.400	26
	531	5002	004	CONCRETE SIDEWALKS DOLLARS CENTS and	M2	89.900	27
	531	5003	004	CONCRETE SIDEWALK (WHEELCHAIR RAMP) DOLLARS CENTS and	M2	42.800	28
	536	5004		CONC MEDIAN (100 MM) DOLLARS CENTS and	M2	35.900	29
	618	5005		CONDUIT (RM)(50 MM) DOLLARS CENTS and	M	8.000	30
	618	5011		CONDUIT (PVC)(SCHD 40)(50 MM) DOLLARS CENTS and	M	43.700	31
	618	5013		CONDUIT (PVC)(SCHD 40)(75 MM) DOLLARS CENTS and	M	14.000	32

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	618	5032		CONDUIT (PVC)(SCHD 40)(BORE)(50 MM) DOLLARS and CENTS	M	83.600	33
	618	5034		CONDUIT (PVC)(SCHD 40)(BORE)(75 MM) DOLLARS and CENTS	M	14.500	34
	618	5035		CONDUIT (PVC)(SCHD 40)(BORE)(100 MM) DOLLARS and CENTS	M	14.500	35
	618	5045		CONDUIT (PVC)(SCHD 40)(25 MM) DOLLARS and CENTS	M	4.500	36
	620	5003		ELEC CONDUCTOR (NO. 8) BARE DOLLARS and CENTS	M	89.800	37
	620	5004		ELEC CONDUCTOR (NO. 6) BARE DOLLARS and CENTS	M	88.500	38
	620	5009		ELEC CONDUCTOR (NO. 8) INSULATED DOLLARS and CENTS	M	89.800	39
	620	5010		ELEC CONDUCTOR (NO. 6) INSULATED DOLLARS and CENTS	M	24.000	40
	624	5001		GROUND BOX TY A (122311) W/APRON DOLLARS and CENTS	EA	2.000	41
	624	5003		GROUND BOX TY C (162911) W/APRON DOLLARS and CENTS	EA	5.000	42
	628	5063		ELEC SERV TY T(120)000(NS)AL(E)OT(O) DOLLARS and CENTS	EA	1.000	43

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	656	5004		FND FOR TRAF SIG (750 MM DRIL SHFT) DOLLARS and CENTS	M	1.000	44
	656	5011		FND FOR RDWY ILL ASM (TYB)(750MM DR SH) DOLLARS and CENTS	M	4.000	45
	662	5001	005	WRK ZN PAV MRK REMOV (W) (SLD) (100 MM) DOLLARS and CENTS	M	24.000	46
	662	5024	005	WRK ZN PAV MRK REMOV (Y) (BRK)(100 MM) DOLLARS and CENTS	M	150.000	47
	662	5042	005	WRK ZN PAV MRK REMOV (CL B) TY I-C DOLLARS and CENTS	EA	42.000	48
	662	5045	005	WRK ZN PAV MRK REMOV (CL C) TY W DOLLARS and CENTS	EA	176.000	49
	662	5081	005	WRK ZN PAV MRK SH TRM (TAB) TY W DOLLARS and CENTS	EA	144.000	50
	662	5082	005	WRK ZN PAV MRK SH TRM (TAB) TY Y DOLLARS and CENTS	EA	36.000	51
	666	5036	012	REFL PAV MRK TY II (W) (BRK) (100 MM) DOLLARS and CENTS	M	132.000	52
	666	5038	012	REFL PAV MRK TY II (W) (SLD) (150 MM) DOLLARS and CENTS	M	282.000	53

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	5043	012	REFL PAV MRK TY II (W) (SLD) (450 MM) DOLLARS and CENTS	M	48.000	54
	666	5056	012	REFL PAV MRK TY II (Y) (SLD) (100 MM) DOLLARS and CENTS	M	248.000	55
	666	5057	012	REFL PAV MRK TY II (Y) (BRK) (100 MM) DOLLARS and CENTS	M	18.000	56
	666	5061	012	REFL PAV MRK TY II (Y) (SLD) (300 MM) DOLLARS and CENTS	M	5.000	57
	668	5071		PREFAB PAV MRK TY C (W) (ARROW) DOLLARS and CENTS	EA	2.000	58
	668	5075		PREFAB PAV MRK TY C (W) (WORD) DOLLARS and CENTS	EA	1.000	59
	672	5006	004	RAIS PAV MRKR CL B (REFL) TY I-A DOLLARS and CENTS	EA	19.000	60
	672	5007	004	RAIS PAV MRKR CL B (REFL) TY I-C DOLLARS and CENTS	EA	105.000	61
	672	5009	004	RAIS PAV MRKR CL B (REFL) TY II-A-A DOLLARS and CENTS	EA	105.000	62
	672	5010	004	RAIS PAV MRKR CL B (REFL) TY II-C-R DOLLARS and CENTS	EA	42.000	63
	677	5001		ELIM EXT PAV MRK & MRKR (100 MM) DOLLARS and CENTS	M	396.500	64

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	678	5001		PAV SURF PREP FOR MRKS (100 MM) DOLLARS and CENTS	M	266.000	65
	678	5002		PAV SURF PREP FOR MRKS (150 MM) DOLLARS and CENTS	M	282.000	66
	678	5004		PAV SURF PREP FOR MRKS (300 MM) DOLLARS and CENTS	M	5.000	67
	678	5005		PAV SURF PREP FOR MRKS (450 MM) DOLLARS and CENTS	M	53.000	68
	680	5001	004	INSTAL OF HWY TRAF SIG (ISOLATED) DOLLARS and CENTS	EA	1.000	69
	684	5020		TRAF SIG CBL (TY A)(20 CONDR)(12 AWG) DOLLARS and CENTS	M	134.000	70
	684	5044		TRAF SIG CBL (TY C) (2 CONDR)(14 AWG) DOLLARS and CENTS	M	610.000	71
	688	5011		VEH DETECT (SAWCUT) DOLLARS and CENTS	M	149.000	72
	5012	5003		TEMP SEDMT CONT FENCE (REMOV) DOLLARS and CENTS	M	45.000	73
	5012	5004		TEMP SD CONT FEN (INLET PROTECTION) DOLLARS and CENTS	M	45.000	74
	5421	5001		ADJUST WATER METER BOX DOLLARS and CENTS	EA	3.000	75

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	5421	5002		ADJUST WTR VALVE COVERS & STACK DOLLARS and CENTS	EA	2.000	76
	5421	5005		ADJUST WWMH W/610 MM (24") LID DOLLARS and CENTS	EA	1.000	77
	5421	5006		INVESTIGATION DOLLARS and CENTS	EA	2.000	78
	5421	5007		ALTER WTR VALVE COVERS & STACK DOLLARS and CENTS	EA	2.000	79
	5421	5011		150 MM (6") GATE VALVE DOLLARS and CENTS	EA	1.000	80
	5421	5012		REPL EXIST FIRE HYDRANT TO FINAL GRADE DOLLARS and CENTS	EA	1.000	81

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SPECIFICATION DATA

BASIS OF ESTIMATE FOR PERMANENT CONSTRUCTION				
ITEM	DESCRIPTION	RATE	UNIT	QUANTITY
162	BLOCK SOD	0.1 M	-	651.5 M2
166 *	FERT (12-12-12)	170 KG-N/HA	651.5 M2	_11.1 MGR
168	VEGETATIVE WATERING	2520 KL/HA	651.5 M2	164.2 KL
204	SPRINK (DUST CONT)	280 KL/HA	1780.0 M2	_49.8 KL
340	HOT MIX ASPHALT (TY B)	235.0 KG/M2	1181.5 M2	277.7 MGR
340	HOT MIX ASPHALT (TY D)	58.8 KG/M2	694.0 M2	_40.8 MGR

BASIS OF ESTIMATE FOR TEMPORARY EROSION CONTROL ITEMS				
ITEM	DESCRIPTION	RATE	UNIT	QUANTITY
164	BRDCST SEED(TEMP)(WARM)	SEE SPECS	-	325.0 M2
164	BRDCST SEED(TEMP)(COOL)	SEE SPECS	-	325.0 M2
166 *	FERT (12-12-12)	170 KG-N/HA	650.0 M2	11.1 MGR
168	VEGETATIVE WATERING	2520 KL/HA	650.0 M2	163.8 KL

VEGETATIVE WATERING CALCULATION IS
BASED ON EIGHT APPLICATIONS.

* FOR CONTRACTOR'S INFORMATION ONLY.

GENERAL NOTES:

BENCHMARKS WILL BE SET BY TEXAS DEPARTMENT OF TRANSPORTATION
FORCES PRIOR TO BEGINNING CONSTRUCTION.

THE CONSTRUCTION, OPERATION AND MAINTENANCE OF THIS PROPOSED
PROJECT WILL BE CONSISTENT WITH THE STATE IMPLEMENTATION PLAN FOR
IMPROVING AIR QUALITY AS PREPARED BY THE TEXAS NATURAL RESOURCE
CONSERVATION COMMISSION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AN ACCURATE
VERTICAL AND HORIZONTAL CONTROL THROUGHOUT THE CONTRACT. SURVEY
MONUMENTS, FURNISHED BY THE DEPARTMENT, SHALL BE PLACED BY THE
CONTRACTOR AT POINTS INDICATED AND AS DETAILED IN THE PLANS OR AS
DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH THE AREA
ENGINEER SURFACE COORDINATES AND THE ELEVATION OF THE SET
MONUMENT AND AN AZIMUTH FROM THE MONUMENT TO SOME PROMINENT
PHYSICAL FEATURE, PREFERABLY ANOTHER SURVEY MONUMENT ON THE

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PROJECT. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.

UPON REQUEST OF THE ENGINEER, THE CONTRACTOR SHALL FURNISH TO THE ENGINEER A TYPED NARRATIVE REPORT, SIGNED AND DATED BY THE CONTRACTOR, OUTLINING THE MANNER OF PROSECUTION OF WORK THAT HE INTENDS TO FOLLOW THE SUBSEQUENT THIRTY DAY PERIOD.

IF, AT ANY TIME DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR FALLS MORE THAN 30 DAYS BEHIND HIS SCHEDULE SUBMITTED UNDER PROVISIONS OF ARTICLE 8.2, HE SHALL FURNISH THE ENGINEER WITH AN UPDATED REALISTIC CONSTRUCTION SCHEDULE.

ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND TXU ELECTRIC AND TEXAS DEPARTMENT OF TRANSPORTATION.

THE CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICES WITH TXU ELECTRIC REPRESENTATIVES ACCORDING TO THEIR RESPECTIVE AREA.

ERECTION OF POLES, LUMINAIRES AND STRUCTURES LOCATED NEAR ANY OVERHEAD OR UNDERGROUND UTILITIES SHALL BE ACCOMPLISHED USING ESTABLISHED INDUSTRY AND UTILITY SAFETY PRACTICES. THE CONTRACTOR SHALL CONSULT WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING SUCH WORK.

THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PRESERVE EXISTING TREES DESIGNATED BY THE ENGINEER TO REMAIN FOLLOWING CONSTRUCTION. THE CONTRACTOR IS REQUESTED TO FOLLOW THE TEXAS DEPARTMENT OF TRANSPORTATION'S PRUNING GUIDELINES AND OBSERVE RECOGNIZED TREE SURGERY PRACTICES. ADDITIONALLY, CARE SHALL BE TAKEN TO MINIMIZE DISRUPTION OR DAMAGE TO THE ROOT SYSTEM OF THESE DESIGNATED TREES.

THE CONTRACTOR IS RESPONSIBLE FOR STABILIZING ALL UNPAVED AREAS OF THE PROJECT WITH A MINIMUM 70% DENSITY OF VEGETATIVE COVER. THIS IS TO BE ACCOMPLISHED UTILIZING THE ITEMS IN THIS CONTRACT.

PRIOR TO BEGINNING CONSTRUCTION AT INTERSECTIONS, CONTACT THE CITY OF DALLAS PUBLIC WORKS AT (214) 670-4812 TWO WORKING DAYS IN ADVANCE FOR TRAFFIC SIGNAL CONDUIT LOCATIONS.

THE CONTRACTOR SHALL NOTIFY THE CITY OF DALLAS WATER UTILITIES DISTRIBUTION DIVISION, (214) 670-8963, AND THE CITY OF DALLAS WASTEWATER

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COLLECTION DIVISION, (214) 670-8011, AT LEAST 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION THAT MIGHT AFFECT THEIR FACILITIES.

VERIFY LOCATIONS OF TEXAS UTILITY COMPANY UNDERGROUND FACILITIES BEFORE BEGINNING EXCAVATION. IF NECESSARY, DIG TEST DITCHES TO DETERMINE ACTUAL FIELD CONDITIONS. CALL 1(800) 242-9113 TWO WORKING DAYS PRIOR TO EXCAVATING IN THE VICINITY OF TXU ELECTRIC COMPANY FACILITIES.

PRIOR TO BEGINNING CONSTRUCTION IN THE AREA OF SOUTHWESTERN BELL TELEPHONE BELL TELEPHONE UNDERGROUND FACILITIES, CALL 1-800-344-8377 TWO WORKING DAYS IN ADVANCE OF THE WORK. IF NECESSARY, TEST DITCHES WILL BE DUG TO VERIFY ACTUAL LOCATIONS AND CONDITIONS.

PRIOR TO BEGINNING CONSTRUCTION IN THE PROXIMITY OF LONE STAR GAS FACILITIES, CALL 1-800-344-8377 TWO WORKING DAYS IN ADVANCE OF THE WORK.

CONTACT TCI CABLEVISION AT (214) 320-7396 48 HOURS PRIOR TO BEGINNING CONSTRUCTION SO THE LOCATION OF UNDERGROUND LINES CAN BE MARKED.

THE CONTRACTOR SHALL TAKE EXTREME CARE WHEN EXCAVATING IN THE VICINITY OF UTILITIES. THE CONTRACTOR MAY BE REQUIRED TO PROBE OR EXPOSE THESE FACILITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO THE UTILITIES IF THE DAMAGE IS CAUSED BY NEGLIGENCE OR A FAILURE TO HAVE CITY OF DALLAS LOCATES PERFORMED.

TO THE EXTENT POSSIBLE, THE CONTRACTOR SHALL ACCELERATE THE PERMANENT TRAFFIC SIGNAL CONSTRUCTION IN ORDER TO MINIMIZE THE AMOUNT OF TEMPORARY TRAFFIC SIGNAL WORK NEEDED. (THE CITY OF DALLAS WILL PROVIDE TEMPORARY TRAFFIC SIGNALS WHERE NEEDED. CONTACT THE CITY OF DALLAS PUBLIC WORKS AND TRANSPORTATION DEPARTMENT AT (214) 670-4812 TWO WEEKS IN ADVANCE FOR TEMPORARY TRAFFIC SIGNAL ADJUSTMENTS.

THE LOCATION OF TRAFFIC SIGNAL FOUNDATION, BASES, CONDUIT, DETECTORS, ETC., SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL GIVE THE CITY OF DALLAS TWO DAYS NOTICE OF HIS INTENTION TO ESTABLISH THE FINAL LOCATION OF ANY FOUNDATION, BASE, CONDUIT, DETECTOR, ETC., AND HAVE THE LOCATION APPROVED ON THE GROUND BY A CITY OF DALLAS REPRESENTATIVE. (CONTACT THE CITY OF DALLAS PUBLIC WORKS AND TRANSPORTATION DEPARTMENT AT (214) 670-4812)

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ALL SHOP DRAWINGS, WORKING DRAWINGS OR OTHER DOCUMENTS WHICH REQUIRE REVIEW BY THE ENGINEER SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF SCHEDULED CONSTRUCTION TO ALLOW NO LESS THAN THIRTY (30) CALENDAR DAYS FOR REVIEW AND RESPONSE BY THE ENGINEER.

IF SWEEPING, PLANING OR OTHER CLEANUP OPERATIONS RESULT IN DUST BECOMING AN ENVIRONMENTAL PROBLEM, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO USE VACUM-TYPE SWEEPER EQUIPMENT TO REPLACE CONVENTIONAL SWEEPERS.

QUESTIONS PRIOR TO LETTING MAY BE SUBMITTED BY E-MAIL OR FAX AND WILL BE ANSWERED BY E-MAIL OR FAX (E-MAIL: WGOODELL@DOT.STATE.TX.US, FAX: (972) 235-8667). A FILE CONTAINING THESE QUESTIONS AND ANSWERS WILL BE AVAILABLE FOR REVIEW AT THE AREA ENGINEER'S OFFICE LOCATED AT 4777 E. HIGHWAY 80 MESQUITE, TX 75150-6643.

ANY NECESSARY PILOT MARKINGS FOR ANY STRIPING OPERATION SHALL BE THE SAME COLOR AS THE PROPOSED STRIPE. PILOT MARKINGS SHALL BE LIMITED TO ONE (1) 2-INCH DIAMETER MARK FOR EACH 100 FEET OF STRIPE. ALL PILOT MARKINGS SHALL BE TOTALLY OBLITERATED AFTER COMPLETION OF THE STRIPING OPERATION.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THE FOLLOWING STANDARD PLAN SHEET(S) USING U.S. CUSTOMARY (ENGLISH) UNITS ARE INCLUDED IN THIS PROJECT:

- SHEET 60A: MISCELLANEOUS DETAILS REINFORCED SIDEWALK & BARRIER FREE RAMPS.
- SHEET 83: ELECTRICAL DETAILS-CONDUIT.....ED(1)-00
- SHEET 84: ELECTRICAL DETAILS-CONDUCTORS.....ED(2)-00
- SHEET 85: ELECTRICAL DETAILS-GROUND BOXES.....ED(3)-00
- SHEET 86: ELECTRICAL DETAILS-SERVICE ENCLOSURE & NOTES.....ED(5)-00
- SHEET 87: ELECTRICAL DETAILS-TYPICAL TRAFFIC SIGNAL SYSTEM DETAILS.....ED(7)-00

FOR THE CONTRACTOR'S INFORMATION CONVERSION FACTORS ARE INCLUDED IN THE APPENDIX TO THE DEPARTMENTS 1995 STANDARD SPECIFICATIONS FOR CONSTRUCTION & MAINTENANCE & HIGHWAYS, STREETS & BRIDGES.

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ITEM 8:

WHENEVER THE WORK PROVIDED FOR AND CONTEMPLATED UNDER THE CONTRACT HAS BEEN FOUND BY THE ENGINEER, BASED UPON AN INSPECTION MADE BY HIM, TO BE SATISFACTORILY COMPLETED ON ANY INDIVIDUAL SIGNALIZED INTERSECTION AND/OR EACH INTERCONNECTED OR COORDINATED SYSTEM OF SIGNALIZED INTERSECTIONS AS SHOWN IN THE PLANS, FINAL CLEANING UP OF SAID SIGNALIZED INTERSECTION HAS BEEN PERFORMED AND THE TRAFFIC SIGNAL EQUIPMENT SUPPLIED BY THE CONTRACTOR HAS OPERATED CONTINUOUSLY FOR A MINIMUM OF THIRTY (30) DAYS IN A SATISFACTORY MANNER, THE CONTRACTOR WILL BE RELEASED FROM FURTHER MAINTENANCE ON THAT PARTICULAR INTERSECTION. SUCH PARTIAL ACCEPTANCE WILL BE MADE IN WRITING AND SHALL IN NO WAY VOID OR ALTER ANY TERMS OF THE CONTRACT.

ITEM 100:

THE LIMITS OF PREPARING RIGHT-OF-WAY WILL BE AS SHOWN ON THE PLANS.

EXISTING ROADWAY SIGNS TO BE REMOVED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE PLACED WITHIN THE RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER.

ITEMS 100 AND 104:

REMOVAL OF ALL AREAS OF OLD CONCRETE (SIDEWALKS, DRIVEWAYS, PARKING AREAS, FOUNDATIONS, ETC.), EXCEPT AS NOTED UNDER ITEM 104 AND SHOWN ON THE REMOVAL ITEM SHEETS, SHALL BE INCLUDED UNDER ITEM 100.

EXISTING CONCRETE PAVEMENT OR EXISTING CURB AND GUTTER TO BE REMOVED SHALL BE SAWED ALONG NEAT LINES WHERE PORTIONS ARE TO BE LEFT IN PLACE. SAWING WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

ALL OF THE EXISTING OLD CONCRETE TO BE REMOVED ON THIS PROJECT WILL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF BY HIM OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY AT HIS OWN EXPENSE AND IN A MANNER APPROVED BY THE ENGINEER.

REMOVAL OF MONOLITHIC CONCRETE CURB SHALL BE SUBSIDIARY TO THE REMOVAL OF CONCRETE PAVEMENT AND SHALL BE ACCOMPLISHED BY ANY METHOD APPROVED BY THE ENGINEER. IN THOSE AREAS WHERE THE

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PAVEMENT IS NOT TO BE OVERLAID, A SMOOTH SURFACE WILL BE REQUIRED AFTER THE CURB REMOVAL OPERATION HAS BEEN COMPLETED. PLANING OR GRINDING WILL BE CONSIDERED AS AN ACCEPTABLE METHOD AT THESE LOCATIONS. MEASUREMENT AND PAYMENT SHALL BE IN ACCORDANCE WITH THIS ITEM.

ITEM 110:

EXCAVATION FOR DRIVEWAYS AND INTERSECTIONS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

ITEM 160:

THE CONTRACTOR WILL BE REQUIRED, WHERE POSSIBLE, TO ARRANGE THE SEQUENCE OF HIS OPERATIONS IN SUCH A MANNER THAT TOPSOIL WILL BE SALVAGED FROM ONE LOCATION AND PLACED DIRECTLY ON NEARBY SLOPE AREAS TO RECEIVE THIS ITEM. STOCKPILING OF TOPSOIL AND GRASS SOD SHALL BE KEPT TO A MINIMUM AND SHALL BE AS APPROVED BY THE ENGINEER.

THE TOPSOIL REQUIRED FOR THIS ITEM SHALL BE SALVAGED FROM THE ROW ON THIS PROJECT AS DIRECTED BY THE ENGINEER & SHALL BE FERTILE LOAM OR CLAY FROM NOT MORE THAN 2 FEET BELOW NATURAL GROUND.

ITEMS 164 AND 166:

BROADCAST SEEDING AND FERTILIZER SHALL BE PLACED ON ALL UNSURFACED DISTURBED AREAS WITHIN THE LIMITS OF THE RIGHT-OF-WAY, AS DIRECTED BY THE ENGINEER.

ITEMS 162 AND 166:

BLOCK SOD AND FERTILIZER SHALL BE PLACED IN STRIPS TWO (2) FEET WIDE ON EACH SIDE OF THE RIPRAP AT SHOULDER DRAINS.

ITEM 164:

THE CONTRACTOR WILL BE REQUIRED TO ARRANGE HIS SEEDING OPERATION AFTER THE COMPLETION OF EACH CONSTRUCTION STAGE DEPENDENT UPON THE PLANTING DATE REQUIREMENTS STIPULATED BY THIS ITEM. NO ADDITIONAL COMPENSATION WILL BE GRANTED TO THE CONTRACTOR FOR THE ADDITIONAL MOVE-INS.

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ITEMS 164 AND 166:

SEEDING AND FERTILIZER WILL BE PLACED AS A WATER SLURRY.

ITEM 168:

THE CONTRACTOR SHALL APPLY VEGETATIVE WATERING FOR PERMANENT SODDING. VEGETATIVE WATERING SHALL BE APPLIED FOR TEMPORARY EROSION CONTROL SEEDING AS NEEDED OR AS SHOWN IN THE BASIS OF ESTIMATE.

ITEM 340:

ALL MIXTURES WILL BE EVALUATED FOR SUSCEPTIBILITY TO MOISTURE USING TEX-53-C WITH 10% MAXIMUM STRIPPING ALLOWED. AN APPROVED ANTISTRIpping AGENT WILL BE REQUIRED FOR ALL HMAC MIXTURES. TEST METHOD TEX-530-C IS REQUIRED FOR EVALUATION TESTING DURING DESIGN WITH VERIFICATION AS REQUIRED BY THE ENGINEER'S LEVEL II SPECIALISTS AND ALSO FOR PRODUCTION STAGES.

WHEN THE COARSE AGGREGATE FROM ANY ONE SOURCE CONTAINS MATERIALS WITH SUBSTANTIALLY DIFFERENT MINERALOGY, EACH TYPE OF MATERIAL SHALL COMPLY WITH THE REQUIRED POLISH VALUE.

THE UTILIZATION OF RAP FROM OFF PROJECT, STATE OWNED, NON-DESIGNATED SOURCES CAN BE PROPOSED BY THE CONTRACTOR. THIS WILL BE CONSIDERED A VALUE ENGINEERING PROPOSAL AND HANDLED AS SUCH BY THE ENGINEER.

ALL ASPHALT PLACED FOR TRAFFIC DURING STAGE CONSTRUCTION SHALL BE MAINTAINED TO PROMOTE SAFE AND EFFECTIVE TRAFFIC FLOW AS DIRECTED BY THE ENGINEER. THE WORK INVOLVED FOR MAINTENANCE WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

STORAGE OF THE COMPLETED MIX UPON THE GROUND WILL NOT BE PERMITTED AT THE MIXING PLANT OR THE JOB SITES. ANY MIX THAT COMES INTO CONTACT WITH OTHER OBJECTIONABLE FOREIGN MATTER WILL BE REJECTED.

FOR THE DRUM-MIX TYPE MIXER, THE STOCKPILED AGGREGATES SHALL BE PROPORTIONED FROM SEPARATE COMPARTMENTS ONTO INDIVIDUAL FEED BELTS WITH SEPARATE BUT VARIABLE SPEED CONTROLS. THE MOISTURE CONTENT IN THE COMPLETED MIX SHALL NOT EXCEED 3/4 OF ONE PERCENT WHEN TESTED BY TEST METHOD TEX-212-F, PART II, IMMEDIATELY AFTER DISCHARGING FROM THE MIXER.

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THE MOISTURE CONTENT IN THE COMPLETED MIX SHALL NOT EXCEED 3/4 OF ONE PERCENT WHEN TESTED BY TEST METHOD TEX-212-F, PART II, IMMEDIATELY AFTER DISCHARGING FROM THE MIXER.

THE FINE AGGREGATE SHALL BE PROCESSED SUFFICIENTLY, PRIOR TO ENTERING THE DRYER, SO THAT THE SLAKEABLE MATERIAL RETAINED ON THE NO. 4 SIEVE SHALL NOT EXCEED 2%.

THE TYPE OF PERFORMANCE GRADE BINDER SHALL BE PG 76-22 FOR SURFACE MATERIAL AND 64-22 FOR BASE MATERIAL.

ITEM 360:

WHEN USED, THREADED CONNECTOR TIEBARS SHALL BE CHAIRED AND/OR TIED TO THE PAVEMENT REINFORCING STEEL.

PAVEMENT LEAVOUTS WILL BE REQUIRED ON THIS PROJECT AS NECESSARY TO PROVIDE FOR TRAFFIC AT DRIVEWAYS AND SIDE STREETS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF PROVIDING THESE LEAVOUTS, INCLUDING THE CONSTRUCTION OF A SUITABLE CROSSOVER CONNECTION AT EACH SITE, WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

ANY AREA IN EXCESS OF THREE SQUARE YARDS WITH GROOVES LESS THAN 1/8" DEEP WILL BE SAW GROOVED BY THE CONTRACTOR AT HIS OWN EXPENSE.

THE DOWEL SUPPORT ASSEMBLIES USED IN CONCRETE PAVEMENT SHALL BE CONSTRUCTED USING NO. 1/0 (0.306" DIAMETER) WIRE IN THE MAIN VERTICAL MEMBERS. DOWELS SHALL BE RIGIDLY SUPPORTED IN PARALLEL POSITIONS AND SHALL BE WELDED ON ONE END TO THE SUPPORT FRAME. THE WELD ATTACHMENT SHALL BE MADE ALTERNATELY ON OPPOSITE ENDS OF SUCCESSIVE DOWELS. THE SUPPORT ASSEMBLY SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

ALL CURBS SHALL BE CONSTRUCTED MONOLITHICALLY WITH THE CONCRETE PAVEMENT. IF CONTINUOUS MONOLITHIC CURB HAS TO BE TEMPORARILY OMITTED FOR ANY REASON, THE CONTRACTOR WILL BE REQUIRED TO DOWEL ON PROPOSED CURBS AS DETAILED IN THE PLANS. AN APPROVED EPOXY RESIN SHALL BE APPLIED TO THE PAVEMENT TO RECEIVE THE CURB AS DIRECTED BY THE ENGINEER. THIS WORK AND MATERIALS SHALL BE SUBSIDIARY TO THIS ITEM AND WILL NOT BE PAID FOR DIRECTLY.

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TWO PIECE, THREADED CONNECTOR, TIEBARS USED IN CONCRETE PAVING SHALL BE CHAINED AND/OR TIED TO THE PAVEMENT REINFORCING STEEL. IN LIEU OF TWO PIECE TIEBARS, THE CONTRACTOR MAY DRILL HOLES INTO THE PAVEMENT AND GROUT STRAIGHT TIEBARS IN PLACE WITH EPOXY. THE BENDING OF TIEBARS AND/OR INSERTION INTO PLASTIC CONCRETE IS PROHIBITED.

THESE PLANS REQUIRE SAWED JOINTS. CONSTRUCTION, SAWED, AND CONTRACTION JOINTS SHALL BE PLACED IN ACCORDANCE WITH THE PAVEMENT DETAIL SHEET AND AS DIRECTED BY THE ENGINEER. JOINT LOCATIONS, OTHER THAN AS SHOWN ON THE PLANS, SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL SAW TRANSVERSE JOINTS ACROSS PAVEMENT AND CURBS.

IF A TRAVELING FORM PAVER IS USED, IT SHALL BE EQUIPPED WITH AN ELECTRONICALLY OPERATED HORIZONTAL CONTROL DEVICE.

TIEBARS USED IN LONGITUDINAL JOINTS SHALL NOT BE PLACED WITHIN THREE HUNDRED AND SEVENTY FIVE (375) MILLIMETERS OF TRANSVERSE JOINTS.

USE OF "MECHANICAL STEEL PLACING EQUIPMENT" WILL BE AT THE DISCRETION OF THE ENGINEER ON THIS PROJECT.

MATERIALS OTHER THAN HOT APPLIED ALPHALT CEMENT MAY BE USED FOR DOWEL COATING IN JOINTED PAVEMENT WITH THE APPROVAL OF THE ENGINEER.

ITEM 400:

CONCRETE SEWER PIPE PLACED ON SLOPES OF GREATER THAN 10 PERCENT SHALL BE BACKFILLED WITH CEMENT STABILIZED BACKFILL TO A DEPTH SHOWN ON THE PLANS. THE MIX SHALL CONFORM TO ITEM 400. THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 421.2(5). THE PIPE BEDDING WILL BE CLASS B.

ITEM 464:

ANY ABANDONED UTILITIES OR DRAINAGE STRUCTURES THAT ARE ENCOUNTERED BY THE CONTRACTOR SHALL BE REMOVED TO A MINIMUM OF ONE FOOT (0.3 METER) BELOW SUBGRADE AND PLUGGED WITH A CONCRETE PLUG OF A THICKNESS EQUAL TO 1-1/2 INCHES PER FOOT (125 MM PER METER) OF

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DIAMETER OF PIPE WITH A MINIMUM THICKNESS OF 3 INCHES (76 MM).
CONCRETE FOR PLUGS (FURNISHING AND INSTALLING) IS PAID UNDER ITEM 100.

THE CONCRETE COLLARS AND THE CONNECTIONS OF PIPES TO EXISTING OR
PROPOSED CONCRETE BOXES OR PIPE SHALL BE CONSTRUCTED AS SHOWN ON
THE PLANS OR AS DIRECTED BY THE ENGINEER.

ITEM 465:

CONCRETE PAVEMENT REMOVED AS A RESULT OF REMOVING THE EXISTING
INLETS WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED AS
SUBSIDIARY TO ITEM 104.

ITEMS 479 AND 496:

EXISTING STRUCTURES OR PARTS OF STRUCTURES TO BE REMOVED EXCEPT FOR
INLET GRATES OF MANHOLE COVERS, SHALL BECOME THE PROPERTY OF THE
CONTRACTOR & SHALL BE DISPOSED OF BY HIM OUTSIDE THE LIMITS OF THE
R.O.W AT HIS OWN EXPENSE. ALL EXISTING INLET GRATES & MANHOLE COVERS
BEING REMOVED UNDER THESE ITEMS SHALL BE SALVAGED & STOCKPILED
WITHIN THE R.O.W AS DIRECTED BY THE ENGINEER.

ITEM 496:

EXISTING PIPE THAT IS LEFT IN PLACE SHALL BE PLUGGED WITH A CONCRETE
PLUG OF THICKNESS EQUAL TO 1 ½ " PER FOOT OF DIAMETER OF PIPE WITH
MINIMUM THICKNESS EQUAL TO 3 INCHES.

ITEM 502:

THE CONTRACTOR SHALL ABIDE BY ALL PROVISIONS RELATING TO OBTAINING
STREET CUT PERMITS AND INFORMING THE PUBLIC CONTAINED IN SECTION 43-
139 OF THE CITY OF DALLAS DEPARTMENT OF PUBLIC WORKS AND
TRANSPORTATION'S PAVEMENT CUT AND REPAIR STANDARDS MANUAL.

WHEN EXCAVATION IS REQUIRED NEXT TO A PAVEMENT LANE CARRYING
TRAFFIC AND WIDENING IS NOT COMPLETED WITHIN FORTY EIGHT (48) HOURS,
SUFFICIENT BACKFILL SHALL BE PLACED AGAINST THE EDGE OF THE
PAVEMENT TO PROVIDE A USUAL 3:1 SLOPE (1:3 METRIC). THE BACKFILL USED
BY THE CONTRACTOR SHALL BE A DURABLE CRUSHED STONE TYPE OF
FLEXIBLE BASE. WHEN THE PAVEMENT IS TO BE CONSTRUCTED, THIS BACKFILL
SHALL BE CAREFULLY REMOVED AND DISPOSED OF BY THE CONTRACTOR.
MATERIALS AND LABOR FOR THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT
SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

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BARRICADES AND WARNING SIGNS, AS APPROPRIATE, ARE TO BE PLACED AT STOCKPILES TO ADEQUATELY WARN MOTORISTS. AT ALL STOCKPILE SITES THAT ARE LESS THAN 30 FEET (10 METERS) FROM THE EDGE OF ANY TRAVELLED LANE, A TYPE III BARRICADE SHALL BE ERECTED IMMEDIATELY IN FRONT OF OR AT EACH END IF REQUIRED. WHEN A STOCKPILE SITE EQUALS OR EXCEEDS 100 FEET (30 METERS), ONE OBJECT MARKER (OM-2HP) PER 100 FEET (30 METERS) SHALL BE PLACED ALONGSIDE THE STOCKPILE.

THE CONTRACTOR SHALL PLAN HIS WORK SEQUENCE IN A MANNER THAT WILL CAUSE THE MINIMUM INTERFERENCE WITH TRAFFIC DURING CONSTRUCTION OPERATIONS. BEFORE BEGINNING WORK ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL BY THE ENGINEER, A PLAN OF CONSTRUCTION OPERATIONS OUTLINING IN DETAIL A SEQUENCE OF WORK TO BE FOLLOWED, SETTING OUT THE METHOD OF HANDLING TRAFFIC ALONG, ACROSS, AND ADJACENT TO THE WORK.

IF AT ANY TIME DURING CONSTRUCTION THE CONTRACTOR'S PROPOSED PLAN OF OPERATION FOR HANDLING TRAFFIC DOES NOT PROVIDE FOR SAFE, MOVEMENT, THE CONTRACTOR SHALL IMMEDIATELY CHANGE HIS OPERATIONS TO CORRECT THE UNSATISFACTORY CONDITION. THE SEQUENCE OF WORK AS OUTLINED IN THE PLANS AND BELOW IS A GUIDE ONLY AND MAY BE REVISED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.

SUBJECT TO THE APPROVAL OF THE ENGINEER, PORTIONS OF THIS PROJECT WHICH ARE NOT AFFECTED BY OR IN CONFLICT WITH THE PROPOSED METHOD OF HANDLING TRAFFIC OR UTILITY ADJUSTMENTS CAN BE CONSTRUCTED DURING ANY PHASE.

TEMPORARY SIGNS WILL BE REQUIRED DURING CONSTRUCTION FOR THE EXISTING SIGNING WHICH INTERFERES WITH THE CONSTRUCTION. THE EXISTING SIGN FACES ON TEMPORARY SUPPORTS MAY BE USED FOR THE TEMPORARY SIGNS AS LONG AS THEY ARE REMOVED AND ERECTED ON TEMPORARY MOUNTS ON THE SAME DAY. THE WARNING AND REGULATORY SIGNS MUST BE IN PLACE AT ALL TIMES.

DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO FURNISH, PLACE, AND MAINTAIN IN ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" VERTICAL PANELS ALONG THE EDGE OF PAVEMENTS AND FILLS.

BARRICADES AND SIGNS SHALL BE PLACED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE SIGHT DISTANCE OF DRIVERS ENTERING THE HIGHWAY FROM DRIVEWAYS OR SIDE STREETS. TO FACILITATE SHIFTING, BARRICADES AND SIGNS USED IN LANE CLOSURES OR TRAFFIC STAGING MAY BE ERECTED

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AND MOUNTED ON PORTABLE SUPPORTS. THE DESIGN OF THESE SUPPORTS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER

A TYPE "C" FLASHING ARROW PANEL SHALL BE USED IN CONNECTION WITH THE LANE CLOSURE SIGNING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, AND OPERATING THEIR DEVICES IN A MANNER ACCEPTABLE TO THE ENGINEER, AT HIS ENTIRE EXPENSE.

LAYDOWN OPERATIONS FOR HOT MIX ASPHALTIC CONCRETE SHALL BE PERFORMED IN SUCH SEQUENCE THAT THE CENTER JOINT WILL BE CARRIED ALONG WITHOUT EXCESS DISTANCE OF UNEVEN SURFACE (LAPBACK), NOT TO EXCEED ONE DAY'S OPERATION.

THE CONTRACTOR WILL NOT BE PERMITTED TO COMMENCE WORK ON THE ROAD BEFORE SUNRISE AND SHALL ARRANGE HIS WORK SO THAT NO MACHINERY OR EQUIPMENT SHALL BE CLOSER THAN 30 FEET (10 METERS) TO THE TRAVELED ROADWAY AFTER SUNSET EXCEPT AS AUTHORIZED BY THE ENGINEER.

THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STORM WATER CONTROL, EROSION CONTROL, PUMPING, AND DEWATERING TO FACILITATE THE PROPOSED CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND SHALL NOT BE A SEPARATE PAY ITEM.

WHERE THE CONTRACTOR DESIRES TO MOVE ANY EQUIPMENT NOT LICENSED FOR OPERATION ON PUBLIC HIGHWAYS ON OR ACROSS ANY PAVEMENT, HE SHALL PROTECT THE PAVEMENT FROM ALL DAMAGE AS DIRECTED BY THE ENGINEER.

THE CITY OF DALLAS WILL PROVIDE TEMPORARY TRAFFIC SIGNALS FOR THIS PROJECT; HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR ALL SIGNAGE AND MARKINGS DURING CONSTRUCTION, INCLUDING LANE ASSIGNMENT SIGNAGE, TEMPORARY STOP BARS, ETC.

CONTACT THE CITY OF DALLAS PUBLIC WORKS AND TRANSPORTATION DEPARTMENT AT (214) 670-4812 TWO WEEKS IN ADVANCE FOR TEMPORARY TRAFFIC SIGNAL ADJUSTMENTS.

UNLESS PRIOR PERMISSION IS GRANTED BY THE ENGINEER, NO LANE CLOSURES SHALL BE ALLOWED FROM 7:00 AM - 9:00 AM AND FROM 4:00 PM - 6:30 PM MONDAYS THRU FRIDAYS. THE CONTRACTOR SHALL PROVIDE ORANGE FENCE AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

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ITEM 530:

LOCATIONS SHOWN ARE SUBJECT TO CHANGE TO SUIT ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION & MAY BE SHIFTED AS DIRECTED BY THE ENGINEER.

THE MONOLITHIC CURB TO BE CONSTRUCTED ON DRIVEWAYS WILL BE BUILT IN THE SAME DIMENSIONS AS "MONO CURB". THIS CURB WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

ITEM 531:

THE CONCRETE SURFACE FOR WHEELCHAIR RAMPS SHALL HAVE A ROUGH NON-SKID TYPE FINISH.

CURBS FOR WHEELCHAIR RAMPS, AS SHOWN ON MISCELLANEOUS DETAIL SHEETS, WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

ITEM 536:

SAW CUTTING OF EXISTING MEDIAN AND REMOVAL OF EXISTING CONCRETE SHALL BE DONE IN ACCORDANCE WITH ITEM 104. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

CONCRETE MEDIAN & DIRECTIONAL ISLANDS SHALL BE CLASS "B" CONCRETE. 3/4" ASPHALT BOARD EXPANSION JOINT MATERIAL SHALL BE PLACED AT 15 FOOT SPACING AND ADJACENT TO ALL CURBS

ITEM 618:

THE CONTRACTOR SHALL SECURE PERMISSION FROM THE PROPER AUTHORITY AND THE APPROVAL OF THE ENGINEER BEFORE CUTTING INTO OR REMOVING ANY SIDEWALKS OR CURBS, WHICH MIGHT BE REQUIRED IN MAKING THE INSTALLATION.

THE LOCATION OF CONDUITS AND GROUND BOXES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE FIELD CONDITIONS.

CONDUIT SHALL BE PLACED UNDER EXISTING PAVEMENT BY AN APPROVED BORING METHOD UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PITS FOR BORING SHALL NOT BE CLOSER THAN 0.61M (2 FEET) FROM THE EDGE OF THE

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PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WATER JETTING WILL NOT BE PERMITTED.

WHEN BORING IS USED FOR UNDER PAVEMENT CONDUIT INSTALLATIONS, THE MAXIMUM ALLOWABLE OVERCUT SHALL BE 25MM (1") IN DIAMETER.

WHEN CONDUITS ARE BORED, THE VERTICAL AND HORIZONTAL TOLERANCES SHALL NOT EXCEED 457MM (18 IN) AS MEASURED FROM THE INTENDED TARGET POINT.

THE USE OF A PNEUMATICALLY DRIVEN DEVICE FOR PUNCHING HOLES BENEATH THE PAVEMENT (COMMONLY KNOWN AS A "MISSILE") WILL NOT BE PERMITTED ON THIS PROJECT.

RIGID METALLIC CONDUIT ELBOWS 25MM AND LARGER THAT ARE REQUIRED TO BE INSTALLED ON CONDUIT SYSTEM WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED SUBSIDIARY TO VARIOUS BID ITEMS.

THE SAW CUT TRENCH METHOD FOR INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT SHALL ONLY BE USED AT LOCATIONS WHERE CONDUIT CANNOT BE BORED. IF THE CONTRACTOR ELECTS TO USE THE SAW CUT TRENCH METHOD, IT SHALL ONLY BE USED AT LOCATIONS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL INSTALL A NON-METALLIC PULL ROPE IN CONDUIT RUNS IN EXCESS OF 15.2M (50 FEET).

A COLORED CLEANER-PRIMER SHALL BE USED ON ALL PVC TO PVC JOINTS BEFORE APPLICATION OF PVC CEMENT.

THE OPEN TRENCH METHOD BELOW THE PROPOSED SUBGRADE SHALL PLACE ALL PROPOSED CONDUITS, UNLESS OTHERWISE INDICATED IN THE PLANS. IF THE CONTRACTOR FAILS TO PLACE THE CONDUIT AS PROPOSED, THEN HE CAN CHOOSE OTHER METHODS SUCH AS BORING OR OPEN CUTTING NEW PAVEMENT AS APPROVED BY THE ENGINEER, AND AT NO ADDITIONAL COST TO THE STATE.

CONDUIT INSTALLED FOR FUTURE USE SHALL HAVE NON-METALLIC PULL ROPES INSTALLED AND SHALL BE CAPPED USING STANDARD WEATHER TIGHT CONDUIT CAPS, AS APPROVED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT CERTAIN EXISTING CONDUIT MAY BE PROPOSED FOR REUSE. IF THE EXISTING CONDUIT CANNOT BE USED, THE CONTRACTOR WILL BE REQUIRED TO REPAIR AND/OR REPLACE THIS CONDUIT AS DIRECTED BY THE ENGINEER. REPAIR OF THIS

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CONDUIT WILL BE PAID FOR AS "EXTRA WORK" ON A "FORCE ACCOUNT BASIS." THE CONTRACTOR SHALL PROBE THE EXISTING CONDUIT WHEN LOCATING DRILL SHAFTS SO THAT ITS CONDITION WILL BE KNOWN BEFORE IT IS NEEDED.

WHEN USING EXISTING CONDUIT, THE CONTRACTOR SHALL ENSURE THAT ALL CONDUIT HAVE BUSHINGS AND ARE CLEANED OF MUD AND DEBRIS. CONDUIT THAT IS BEING RELOCATED TO NEW TIMBER POLES SHALL BE RESTRAPPED AS IF IT WERE A NEW INSTALLATION. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 618.

THE CONTRACTOR MAY, AT HIS/HER OPTION, SUBSTITUTE HDPE CONDUIT MEETING THE SPECIFICATIONS OF ITEM 622 FOR ALL BORES REQUIRING PVC SCHEDULE 40 CONDUIT AND, WHEN APPROVED BY THE ENGINEER, MAY SUBSTITUTE HDPE FOR SCHEDULE 80 BORED CONDUIT. HDPE SHALL BE THE SAME SIZE AS THE PVC CONDUIT SHOWN ON THE PLANS. HDPE SHALL BE TERMINATED WITH UL LISTED FITTINGS. HDPE MAY BE THREADED AND USE WITH THREADED PVC CONNECTORS OR COUPLINGS. HDPE SHALL BE EXTENDED THROUGH THE BORE IN ONE CONTINUOUS PIECE AND SHALL BE COUPLED TO RMC ELBOWS OR TO PVC CONDUIT AT THE BORE PITS PRIOR TO ENTERING GROUND BOXES (IF GROUND BOXES ARE REQUIRED BY THE PLANS). HDPE SHALL NOT CONTAIN CONDUCTORS DURING INSTALLATION IN THIS MANNER. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR WHEN HDPE IS SUBSTITUTED FOR THIS PURPOSE.

PVC CONDUIT SYSTEMS THAT SNAP OR LOCK TOGETHER WITHOUT GLUE THAT ARE DESIGNED AND UL LISTED TO BE USED FOR BORED PVC ELECTRICAL CONDUIT APPLICATIONS WILL BE ALLOWED FOR BORED PVC SCHEDULE 40, AND WHEN APPROVED BY THE ENGINEER, WILL BE ALLOWED FOR BORED PVC SCHEDULE 80. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR WHEN THESE SPECIFIC PURPOSE CONDUIT SYSTEMS ARE SUBSTITUTED FOR THIS PURPOSE.

LIQUID-TIGHT FLEXIBLE METAL CONDUIT (L.T.F.M.) SHALL BE USED WHERE THE PLANS REFER TO FLEXIBLE METAL CONDUIT. FLEXIBLE METAL SHALL NOT BE PERMITTED ON THIS PROJECT.

ITEM 620:

GROUNDING CONDUCTORS THAT SHARE THE SAME CONDUIT, JUNCTION BOX, GROUND BOX OR STRUCTURE SHALL BE BONDED TOGETHER AT EVERY ACCESSIBLE POINT IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.

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A CONTINUOUS BARE OR GREEN INSULATED COPPER WIRE NO. 8 OR LARGER SHALL BE INSTALLED IN EVERY CONDUIT THROUGHOUT THE ELECTRICAL AND THE TRAFFIC SIGNALS SYSTEM IN ACCORDANCE WITH ITEM 680, THE ELECTRICAL DETAIL SHEETS, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, EXCEPT FOR CONDUIT WITH LOOP DETECTORS ONLY.

ITEM 624:

WHEN USING EXISTING GROUND BOXES, THE CONTRACTOR SHALL ENSURE THAT THE GROUND BOXES ARE CLEAN, PROPERLY SECURED, AND HAVE A MINIMUM OF 229MM OF GRAVEL AS A BASE. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 624.

ALL GROUND BOXES USED FOR SIGNALS SHALL HAVE "SIGNALS" AND "DANGER HIGH VOLTAGE" IMPRINTED ON THE COVER.

ITEM 628:

ELECTRICAL SERVICES FOR THE PROJECT SHALL BE BILLED TO THE CITY OF DALLAS, SINCE THESE SIGNALS WILL BE OPERATED BY THE CITY OF DALLAS.

ITEM 656:

FOR ALL STREET LIGHT RELOCATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING NEW STREET LIGHT FOUNDATIONS WHERE NEEDED AS WELL AS THE UNDERGROUND WORK (CONDUIT AND CONNECTION BOXES) REQUIRED TO TIE THE NEW STREET LIGHT FOUNDATION INTO THE EXISTING STREET LIGHT CONDUITS. ALL STREET LIGHTS BEING RELOCATED WILL BE REMOVED AND REINSTALLED BY TXU; CONTACT THE CITY OF DALLAS STREET LIGHTING SECTION AT 214-670-3272 TO COORDINATE THIS WORK. PRIOR TO CONSTRUCTING NEW STREET LIGHT FOUNDATIONS, THE CONTRACTOR SHALL COORDINATE WITH TXU REGARDING THE TYPE OF BOLT PATTERN TO USE FOR THE NEW STREET LIGHT FOUNDATION.

THE TOP 50MM OF DRILL SHAFTS SHALL BE FORMED OR PROVIDED A SMOOTH FINISH SATISFACTORY TO THE ENGINEER. THE COST OF THE WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THIS ITEM.

A 19MM CHAMFER SHALL BE FORMED ON THE TOP EDGE OF EACH SIGNAL POLE FOUNDATION.

THE CONTRACTOR SHALL PROBE BEFORE DRILLING FOUNDATIONS TO DETERMINE THE LOCATION OF UTILITIES AND STRUCTURES. FOUNDATIONS

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SHALL BE PAID FOR ONCE REGARDLESS OF EXTRA WORK CAUSED BY OBSTRUCTIONS. THE CONTRACTOR SHALL CALL THE DISTRICT UTILITY SECTION AT 214-320-6270 FOR STATE MAINTAINED UTILITY LOCATIONS.

TY A CONCRETE SHALL BE USED FOR NON-REINFORCED FOUNDATIONS. TY C CONCRETE SHALL BE USED FOR REINFORCED FOUNDATIONS.

ITEM 666:

ALL MARKINGS SHALL BE APPLIED BY EXTRUSION.

ITEM 680:

THIS PROJECT SHALL CONSIST OF FURNISHING AND RE-INSTALLING ALL MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE SIGNAL SYSTEM RE-LOCATION AT THE PROPOSED SITE. IN ADDITION TO THESE ITEMS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF DALLAS DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION AT 214-670-3113, 48 HOURS PRIOR TO ANY TRAFFIC SIGNAL TURN-ONS.
2. THE CONTRACTOR SHALL REPAIR ANY SOD, PAVEMENT, and SIDEWALK OR OTHER PROPERTY DAMAGED DURING THE COURSE OF THE CONSTRUCTION, IN ACCORDANCE WITH ARTICLE 7.12 OF THE STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL INSTALL ALL SIGNS SUPPLIED BY THE CITY FOR MOUNTING ON SIGNAL MAST ARMS. THE CITY WILL PROVIDE MOUNTING HARDWARE FOR ALL SIGNS THEY PROVIDE. THE CONTRACTOR MUST PROVIDE THE MOUNTING HARDWARE FOR ALL OTHER SIGNS. ALL OTHER SIGNS SHALL BE FURNISHED IN ACCORDANCE WITH ITEM 636, WILL NOT BE PAID FOR DIRECTLY, AND SHALL BE CONSIDERED SUBSIDIARY TO ITEM 680. THE CONTRACTOR SHALL FURNISH ALL MOUNTING HARDWARE FOR ALL SIGNS. SIGNS SHALL BE MOUNTED WITH ASTRO-SIGN BRAC OR SIGNFIX ALUMINUM CHANNEL OR EQUAL AS APPROVED BY THE ENGINEER.
4. SUBMITTAL LITERATURE SHALL BE PROVIDED FOR ALL CONTRACTOR FURNISHED TRAFFIC SIGNAL EQUIPMENT PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF DALLAS TO HAVE A QUALIFIED TECHNICIAN ON THE PROJECT SITE TO PLACE THE TRAFFIC SIGNALS IN OPERATION.

6. DURING THE THIRTY-DAY TEST PERIOD, THE CONTRACTOR SHALL UTILIZE QUALIFIED PERSONNEL TO RESPOND TO AND DIAGNOSE ALL TROUBLE CALLS. HE SHALL REPAIR ANY MALFUNCTIONS TO SIGNAL EQUIPMENT HE SUPPLIED ON THE PROJECT. THE CONTRACTOR SHALL PROVIDE A LOCAL TELEPHONE NUMBER (NOT SUBJECT TO FREQUENT CHANGES) WHERE TROUBLE CALLS ARE TO BE RECEIVED ON A 24-HOUR BASIS TO THE ENGINEER. THE CONTRACTOR'S RESPONSE TIME TO REPORTED CALLS SHALL BE WITHIN A REASONABLE TRAVEL TIME FROM A DALLAS ADDRESS, BUT NOT MORE THAN TWO (2) HOURS MAXIMUM. APPROPRIATE REPAIRS SHALL BE MADE WITHIN 24 HOURS.

THE CONTRACTOR SHALL PLACE A LOG BOOK IN EACH CONTROLLER CABINET AND KEEP A RECORD OF EACH TROUBLE CALL REPORTED. HE SHALL NOTIFY THE ENGINEER OF EACH TROUBLE CALL. IF, AFTER DIAGNOSING THE PROBLEM, THE QUALIFIED TECHNICIAN DETERMINES THE PROBLEM IS IN THE EQUIPMENT SUPPLIED BY OTHERS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER.

7. THE CONTRACTOR SHALL PLACE DUCT SEAL AT THE ENDS OF ALL CONDUIT WHERE CONDUCTORS AND/OR CABLES ARE PRESENT AND REQUIRED FOR THE INTENDED OPERATION OF THE TRAFFIC SIGNALS.
8. SOME OF THE SIGNALIZED INTERSECTIONS ON THIS PROJECT ARE INTERCONNECTED TO THE CITY OF DALLAS' CENTRALIZED SIGNAL COMPUTER SYSTEM VIA COMMUNITY ACCESS TELEVISION (CATV) CABLE. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THESE INTERCONNECTIONS MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROCURING AND INSTALLING ANY CONDUIT THAT IS REQUIRED TO MAINTAIN THIS LINK. THIS WORK WILL BE SUBSIDIARY TO ITEM 680. THE CITY OF DALLAS WILL COORDINATE WITH THEIR CATV PROVIDER TO INSTALL, REMOVE OR ADJUST ANY CABLE THAT IS REQUIRED TO MAINTAIN THE INTERCONNECTION. THE CONTRACTOR MUST GIVE THE CITY OF DALLAS AT LEAST ONE WEEK'S ADVANCE NOTICE OF HIS INTENT TO PERFORM ANY WORK THAT MAY DISRUPT THESE INTERCONNECTIONS SO THAT THE CITY CAN COORDINATE CABLE INSTALLATIONS, REMOVALS OR ADJUSTMENTS WITH THEIR CATV PROVIDER.

NO EXTRA COMPENSATION WILL BE ALLOWED FOR FULFILLING THE REQUIREMENTS STATED ABOVE.

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THE CONTRACTOR WILL BE RESPONSIBLE FOR CONNECTING ALL NEW OR REVISED FIELD WIRING IN THE CABINET ACCORDING TO INSTRUCTIONS PROVIDED BY THE CITY. ANY OTHER MODIFICATIONS WITHIN THE CABINET (SUCH AS THE INSTALLATION OR REVISION OF DETECTOR AMPLIFIERS, LOAD SWITCHES OR CONFLICT MONITORS) WILL BE PERFORMED BY CITY OF DALLAS PERSONNEL.

THE TYPE C CABLE FOR LOOP DETECTOR LEAD-IN SHALL BE NO. 18 AWG WIRE.

THE CONDUCTORS IN THE TRAFFIC SIGNAL CABLE SHALL BE STRANDED FOR THIS PROJECT. INDIVIDUAL CONDUCTORS SHALL BE NO. 12 AWG.

THE MULTICONDUCTOR SIGNAL CABLE SHOWN ON THE PLANS SHALL BE TERMINATED ON THE TERMINAL STRIP IN THE HAND HOLE OF MAST ARM SIGNAL POLES.

EACH CABLE SHALL BE IDENTIFIED AS SHOWN IN THE PLANS (CABLE 1, ETC.) WITH PERMANENT MARKING LABELS (PANDUIT TYPE PLM STANDARD SINGLE MARKER TIE, THOMAS & BETTS TYPE 548M OR EQUIVALENT) AT EACH GROUND BOX, POLE BASE AND CONTROLLER.

ITEM 686:

ANCHOR BOLTS FOR MAST ARM SIGNAL POLES SHALL BE SET SO THAT TWO ARE IN TENSION AND TWO ARE IN COMPRESSION.

ON EXISTING SIGNAL POLES, THE CONTRACTOR WILL NOT BE REQUIRED TO INSTALL NEW CONDUCTORS FROM THE TERMINAL STRIP OR TRANSFORMER BASE INSIDE THE POLE TO THE SIGNAL HEADS.

ITEM 688:

THIS PROJECT REQUIRES THAT SEVERAL LOOPS IN THE STREET SHARE THE SAME GROUND BOX FOR CONNECTIONS TO THE LOOP LEAD-IN CABLE. THE LEAD-IN SAW CUTS FROM THE STREET TO THE GROUND BOX SHALL MAINTAIN A MINIMUM SEPARATION FROM OTHER LOOPS OF 12 INCHES (305 MM) AND A MINIMUM SEPARATION OF 6 INCHES (152 MM) FROM OTHER LEAD-IN SAW CUTS.

LOOP WIRE SHALL BE USED FOR CONCRETE PAVEMENT AND LOOP DUCT SHALL BE USED FOR HOT MIX ASPHALTIC CONCRETE PAVEMENTS.

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ALL LOOP WIRE FROM THE LOOP IN THE STREET TO THE GROUND BOX SHALL BE TIGHTLY TWISTED A MINIMUM OF 16 TIMES PER METER (5 TIMES PER FOOT) AS IT IS PLACED IN THE LEAD-IN SAW CUT.

THE LOOP DUCT FROM THE LOOP IN THE STREET TO THE GROUND BOX SHALL BE TIGHTLY TWISTED A MINIMUM OF 7 TIMES PER METER (2 TIMES PER FOOT) AS IT IS PLACED IN THE LEAD-IN SAW CUT.

THE LOOP DUCT OUTER TUBE SHALL BE MADE OF FLEXIBLE VINYL AND LOOP DUCT CONDUCTOR SHALL CONFORM TO TYPE XHHW OR XLPE SPECIFICATIONS. GROUNDED SHIELDS ARE REQUIRED ON THE DETECTOR LEAD-IN CABLE AT THE CONTROLLER ONLY. DETECTOR LEAD-IN CABLES SHALL BE RUN CONTINUOUSLY WITHOUT SPLICES FROM THE CURBSIDE GROUND BOX TO THE CONTROLLER, WHERE POSSIBLE. IF SPLICES MUST BE MADE, THEY SHOULD BE MADE IN A POLE BASE, IF POSSIBLE. SPLICES SHALL BE SOLDER CONNECTED (INCLUDING THE GROUND WIRE) AND THE SPlice CONNECTION SHALL BE INSULATED WITH THERMO-SETTING SPLICES AT THE CURB SIDE GROUND BOXES SHALL ALSO BE MADE IN THE SAME MANNER.

DETECTOR LEAD-IN CABLES SHALL BE IDENTIFIED AS SHOWN ON THE PLANS (PHASE 1, ETC.) WITH PERMANENT MARKING LABELS (PANDUIT TYPE PLM, THOMAS & BETTS TYPE 548M STANDARD SINGLE MARKER TIE OR EQUIVALENT) AT EACH GROUND BOX, POLE BASE, AND CONTROLLER.

INSTALLATION OF THE LOOP DETECTORS SHALL BE MADE DURING OFF-PEAK TRAFFIC PERIODS.

PEDESTRIAN PUSH BUTTONS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT.

PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED AT A HEIGHT OF 1.1M (3'-6") ABOVE THE SIDEWALK AND SHALL BE OF THE TYPE THAT HAVE PERMANENT TYPE SIGNS WITHIN THE DETECTOR UNIT WHICH EXPLAINS THEIR PURPOSE AND INDICATES WHICH CROSSWALK SIGNAL IS ACTUATED.

THE PUSH BUTTON SHALL BE ACTIVATED BY A MINIMUM OF 50MM (2") CONVEX PLUNGER. A PROTECTIVE SHROUD SHALL ENCIRCLE THE PLUNGER TO DETER VANDALISM. THE SHROUD SHALL BE CAST AS PART OF THE HOUSING COVER. THE PLUNGER SHALL PROTRUDE BEYOND THE PROTECTIVE SHROUD A DISTANCE ADEQUATE TO ACCOMMODATE THE SWITCH TRAVEL.

WHILE STAKING THE POLE LOCATIONS, THE CONTRACTOR, ALONG WITH THE ENGINEER, SHALL VERIFY THE LOCATION OF THE PUSH BUTTONS AND THE DIRECTION OF THE ARROWS ON THE SIGNS PRIOR TO INSTALLATION.

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TESTING.

PRIOR TO TERMINATION OF THE SHIELDED, TWISTED PAIR LOOP LEAD-IN CABLES AT THE CONTROLLER CABINET, INSULATION TESTS SHALL BE MADE WITH AN INSULATION TEST SET APPLYING NOT LESS THAN 500 VOLTS D.C. TO THE COMPLETED LOOP DETECTOR. A MINIMUM RESISTANCE OF 50 MEGAOHM SHALL BE OBTAINED.

AFTER THE ABOVE INSULATION TESTS ARE COMPLETED AND THE LOOP LEAD-IN CABLE HAS BEEN TERMINATED IN THE CABINET, THE CONTRACTOR SHALL ASSIST THE ENGINEER IN DETERMINING THE LOOP INDUCTANCE OF EACH LOOP DETECTOR INSTALLATION. THE CONTRACTOR SHALL FURNISH A LOOP DETECTOR ANALYZER WHICH SHALL DETERMINE THE TOTAL INDUCTANCE OF THE LOOP IN THE PAVEMENT AND THE ASSOCIATED LEAD-IN CABLE AND SHALL ALSO BE USED IN DETERMINING THE PERCENTAGE SHIFT IN LOOP INDUCTANCE FOR VARIOUS SIZE VEHICLES THAT MAY BE ACTUATING THE DETECTOR.

ALL SIGNAL CABLES AND POWER CONDUCTORS SHALL BE CHECKED FOR INSULATION RESISTANCE UPON INSTALLATION AND PRIOR TO TERMINATION. THE TESTS SHALL BE MADE WITH A TEST SET OPERATING AT A MINIMUM OF 500 VOLTS D.C. APPLIED TO THE CONDUCTORS.

EACH CONDUCTOR IN THE MULTICONDUCTOR SIGNAL CABLES SHALL BE TESTED FOR INSULATION RESISTANCE RELATIVE TO EACH OTHER AND TO THE OUTER COVERING OF THE CABLE. THE MINIMUM ACCEPTABLE VALUE FOR INSULATION RESISTANCE SHALL BE 50 MEGAOHMS.

THIS WORK WILL BE PAID FOR UNDER THEIR RESPECTIVE BID ITEMS. THE LIST OF MATERIAL BELOW IS FOR THE CONTRACTOR'S INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ITEMS AND QUANTITIES LISTED BELOW.

LIST OF MATERIAL/LABOR SUBSIDIARY TO ITEM 680
(INCLUDES ALL INTERSECTIONS.)

DESCRIPTION	UNIT	QUANTITY
INSTALL SIGN PANEL LANE ASSIGNMENT	EA	1
RELOCATE SIGNAL POLE ASSEMBLY	EA	1

LIST OF MATERIAL FURNISHED BY THE CITY OF DALLAS

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DESCRIPTION	UNIT	QUANTITY
RE-WIRING THE CONTROLLERS	EA	1
TEMPORARY SIGNAL	EA	1

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PROJECT : CM 97(108)
HIGHWAY : CS
COUNTY : DALLAS

TEXAS DEPARTMENT OF TRANSPORTATION

GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT
ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF
----- TRANSPORTATION MARCH 1, 1995.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (132)
ITEM 104 REMOVING CONCRETE
ITEM 110 EXCAVATION (132)
ITEM 160 FURNISHING AND PLACING TOPSOIL (204)
ITEM 162 SODDING FOR EROSION CONTROL (166)(168)
ITEM 168 VEGETATIVE WATERING
ITEM 192 ROADSIDE PLANTING AND ESTABLISHMENT (166)(168)
ITEM 305 SALVAGING, HAULING AND STOCKPILING RECLAIMABLE ASPHALTIC
PAVEMENT
ITEM 340 HOT MIX ASPHALTIC CONCRETE PAVEMENT (213)(217)(300)(301)
(520)(5440)
ITEM 360 CONCRETE PAVEMENT (300)(420)(421)(433)(437)(438)(440)
(520)(522)(524)(526)(529)(5440)
ITEM 432 RIPRAP (247)(420)(421)(427)(431)(440)(520)(522)(524)(526)
ITEM 464 REINFORCED CONCRETE PIPE (400)
ITEM 465 MANHOLES AND INLETS (400)(420)(421)(424)(427)(440)(442)
(471)(520)(524)(526)
ITEM 496 REMOVING OLD STRUCTURES
ITEM 500 MOBILIZATION (5440)
ITEM 502 BARRICADES, SIGNS AND TRAFFIC HANDLING
ITEM 506 TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION
PREVENTION AND CONTROL
ITEM 530 DRIVEWAYS AND TURNOUTS (360)(522)
ITEM 531 SIDEWALKS (360)(420)(421)(437)(440)(524)(526)
ITEM 536 CONCRETE MEDIANS AND DIRECTIONAL ISLANDS (104)(420)(421)
(433)(440)(524)(526)(529)
ITEM 618 CONDUIT (400)(476)(622)
ITEM 620 ELECTRICAL CONDUCTORS (610)(628)
ITEM 624 GROUND BOXES (421)(440)

ITEM 628 ELECTRICAL SERVICES (441) (445) (449) (618) (620) (627) (656)
 ITEM 656 FOUNDATIONS FOR SIGNS, TRAFFIC SIGNALS AND ROADWAY
 ILLUMINATION ASSEMBLIES (400) (416) (420) (421) (440) (449)
 (618)
 ITEM 662 WORK ZONE PAVEMENT MARKINGS (666) (672) (677)
 ITEM 666 REFLECTORIZED PAVEMENT MARKINGS (677) (678)
 ITEM 668 PREFABRICATED PAVEMENT MARKINGS (678)
 ITEM 672 RAISED PAVEMENT MARKERS (677) (5381)
 ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)
 (302) (316) (678)
 ITEM 678 PAVEMENT SURFACE PREPARATION FOR MARKINGS
 ITEM 680 INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (400) (421) (440)
 (446) (476) (610) (618) (620) (624) (625) (627) (628) (634) (636)
 (656) (682) (684) (686) (688) (6000) (6001) (6002) (6003) (6004)
 (6008) (6018)
 ITEM 684 TRAFFIC SIGNAL CABLES
 ITEM 688 TRAFFIC SIGNAL DETECTORS

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE
 ----- PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED
 HEREON WHEREVER IN CONFLICT THEREWITH.

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS
 (FORM FHWA 1273, DECEMBER, 1993)

WAGE RATES

SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
 CONSTRUCTION CONTRACT SPECIFICATIONS" (000---001)
 SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
 ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---423)
 SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN
 EMPLOYMENT" (000---003)
 SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--1599)
 SPECIAL PROVISION "NOTICE TO ALL BIDDERS" (000---009)
 SPECIAL PROVISION "OPTIONAL TRAINING" (000--1631)
 SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL-AID
 CONSTRUCTION" (000--1247)
 SPECIAL PROVISION "PARTNERING" (000---878)
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--1644)
 SPECIAL PROVISION "CONVERSION FACTORS" (000---021)
 SPECIAL PROVISIONS TO ITEM 1 (001---078) (001---087)
 SPECIAL PROVISION TO ITEM 2 (002---042)
 SPECIAL PROVISION TO ITEM 3 (003---020)
 SPECIAL PROVISION TO ITEM 4 (004---009)
 SPECIAL PROVISION TO ITEM 5 (005---006)
 SPECIAL PROVISION TO ITEM 6 (006---011)
 SPECIAL PROVISION TO ITEM 7 (007---376)
 SPECIAL PROVISIONS TO ITEM 8 (008---048) (008---119)
 SPECIAL PROVISION TO ITEM 9 (009---045)
 SPECIAL PROVISION TO ITEM 192 (192---012)
 SPECIAL PROVISION TO ITEM 300 (300---040)
 SPECIAL PROVISION TO ITEM 301 (301---002)
 SPECIAL PROVISION TO ITEM 302 (302---014)

SPECIAL PROVISION	TO ITEM	340	(340---004)
SPECIAL PROVISION	TO ITEM	360	(360---028)
SPECIAL PROVISION	TO ITEM	420	(420---010)
SPECIAL PROVISION	TO ITEM	421	(421---028)
SPECIAL PROVISION	TO ITEM	424	(424---002)
SPECIAL PROVISION	TO ITEM	427	(427---001)
SPECIAL PROVISION	TO ITEM	433	(433---002)
SPECIAL PROVISION	TO ITEM	440	(440---005)
SPECIAL PROVISION	TO ITEM	441	(441---008)
SPECIAL PROVISION	TO ITEM	445	(445---001)
SPECIAL PROVISION	TO ITEM	446	(446---008)
SPECIAL PROVISION	TO ITEM	449	(449---001)
SPECIAL PROVISION	TO ITEM	502	(502---020)
SPECIAL PROVISION	TO ITEM	522	(522---002)
SPECIAL PROVISION	TO ITEM	524	(524---006)
SPECIAL PROVISION	TO ITEM	526	(526---002)
SPECIAL PROVISION	TO ITEM	530	(530---004)
SPECIAL PROVISION	TO ITEM	531	(531---004)
SPECIAL PROVISION	TO ITEM	610	(610---001)
SPECIAL PROVISION	TO ITEM	662	(662---005)
SPECIAL PROVISION	TO ITEM	666	(666---012)
SPECIAL PROVISION	TO ITEM	672	(672---004)
SPECIAL PROVISION	TO ITEM	680	(680---004)
SPECIAL PROVISION	TO ITEM	686	(686---002)
SPECIAL PROVISION	TO SPECIAL SPECIFICATION ITEM	6000	(6000--002)

SPECIAL SPECIFICATIONS:

ITEM 5012 TEMPORARY SEDIMENT CONTROL FENCE (506)
ITEM 5381 EPOXY AND ADHESIVES
ITEM 5421 WATER MAINS AND WASTEWATER APPURTENANCES
ITEM 5440 RIDE QUALITY FOR PAVEMENT SURFACES
ITEM 6000 TRAFFIC SIGNAL CONTROLLER ASSEMBLY (6001)
ITEM 6001 DIGITAL LOOP VEHICLE DETECTOR UNIT
ITEM 6002 FLASHER CONTROLLER ASSEMBLY
ITEM 6003 VEHICLE LOOP WIRE SEALANT
ITEM 6004 THREE CONDUCTOR NEUTRAL SUPPORTED SECONDARY CABLE
 (TRIPLEX) (680)
ITEM 6008 SALVAGING TRAFFIC SIGNALS
ITEM 6018 HORIZONTAL SIGN LIGHT (616)

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH
----- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER
PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-
LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL
PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-
CATIONS FOR THIS PROJECT.

SPECIAL PROVISION**000--1644****Important Notice to Contractors**

The Contractor's attention is directed to the fact that right of way and utility adjustments for the construction of this project have, as of August 13, 2002, been adjusted except as listed herein. The State anticipates adjustment of the utilities by the dates set out below. This should be sufficient time to prevent any undue delay to the contractor in his normal operation. An extension of time will be granted, if necessary, for delays caused by interferences beyond the estimated date of clearance.

Owner	Utility & Location	Expected Date of Completion of Adjustment
Southwestern Bell Telephone	Aerial Communications NE corner of Greenville @ Milton	October 15, 2002
Oncor	Aerial Electric SE corner of Greenville @ Milton	October 15, 2002

SPECIAL PROVISION

192---012

Roadside Planting and Establishment

For this project, Item 192, “Roadside Planting and Establishment,” of the Standard Specifications, is hereby amended with respect to the clauses cited below, and no other clauses or requirements of this Item are waived or changed hereby.

Article 192.2. General, (2) License Requirements, (c) Irrigation. The first sentence is voided and replaced by the following:

The Contractor shall be required to possess an irrigator’s license issued by the Texas Commission on Environmental Quality or employ such a Licensed Irrigator to perform the irrigation system maintenance.